



Fig. 1

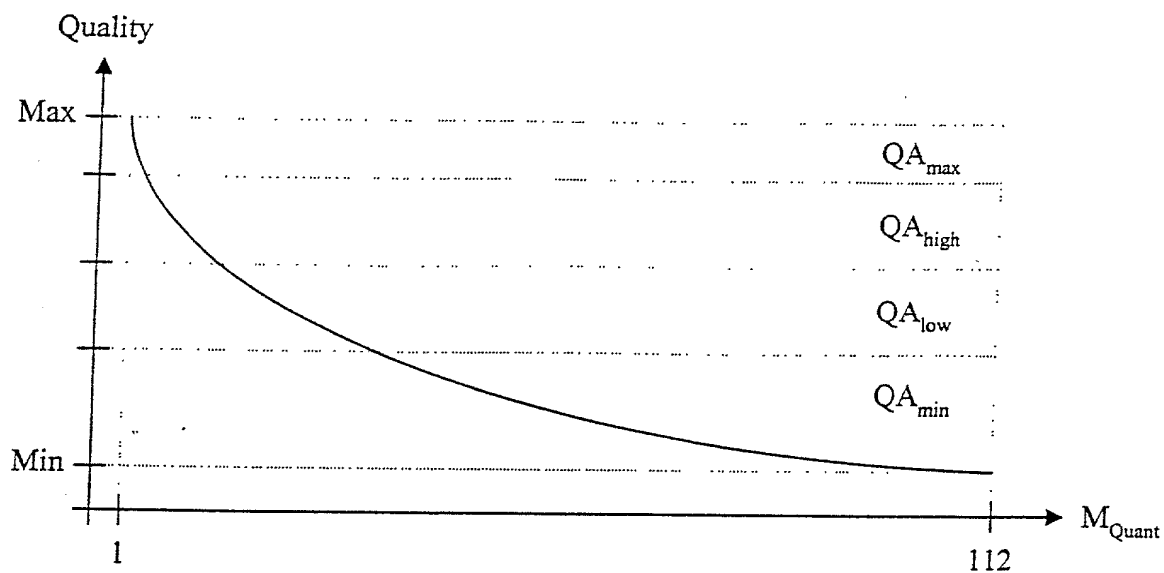


Fig. 2

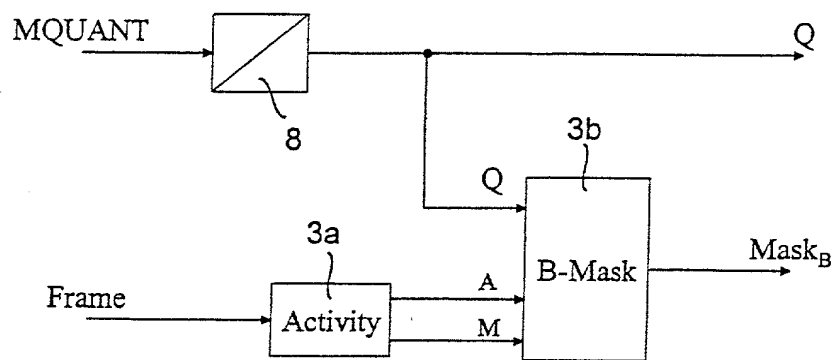


Fig. 3

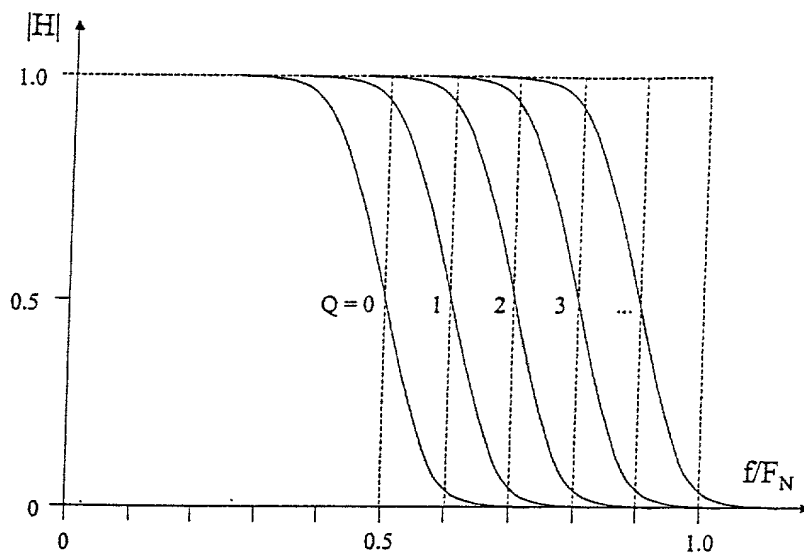


Fig. 4

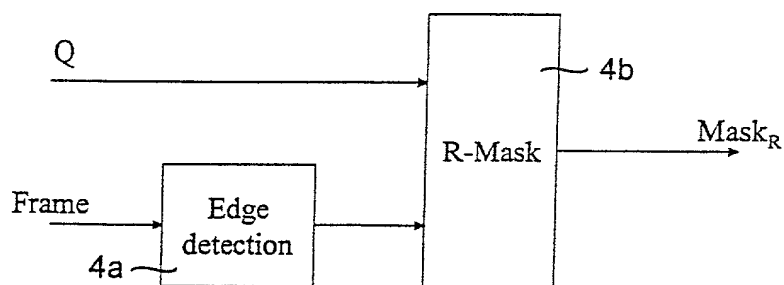


Fig. 5

for QA_{\min} , QA_{low} and QA_{high}

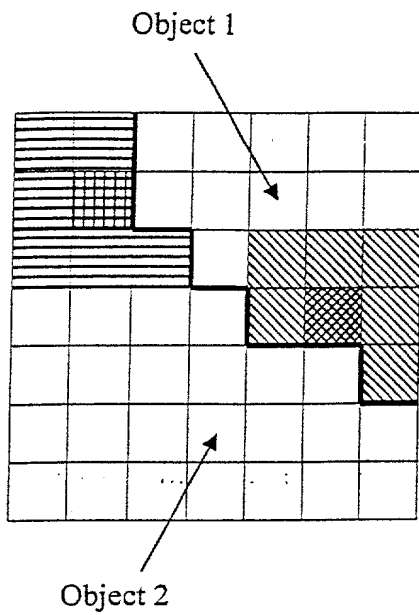
1	2	1
2	W	2
1	2	1

$$W = \begin{cases} 4 & \text{; for } QA_{\min} \\ 8 & \text{; for } QA_{\text{low}} \\ 16 & \text{; for } QA_{\text{high}} \end{cases}$$

for QA_{\max}

0	0	0
0	1	0
0	0	0

Fig. 6



Pixels contributing to the filtering of



$$F = \begin{bmatrix} f_{-1,-1} & f_{0,-1} & f_{1,-1} \\ f_{-1,0} & f_{0,0} & f_{1,0} \\ f_{-1,1} & f_{0,1} & f_{1,1} \end{bmatrix}$$

$$P^{new}[p][l] = \frac{\sum_{j=-1}^1 \sum_{i=-1}^1 P[p+i][l+j] \cdot f[i][j] \cdot \delta_R}{\sum_{j=-1}^1 \sum_{i=-1}^1 f[i][j] \cdot \delta_R}$$

with : $\delta_R = \begin{cases} 1 & \text{if } P[p+i][l+j] \text{ and } P[p][l] \text{ in same region} \\ 0 & \text{otherwise} \end{cases}$

Fig. 7

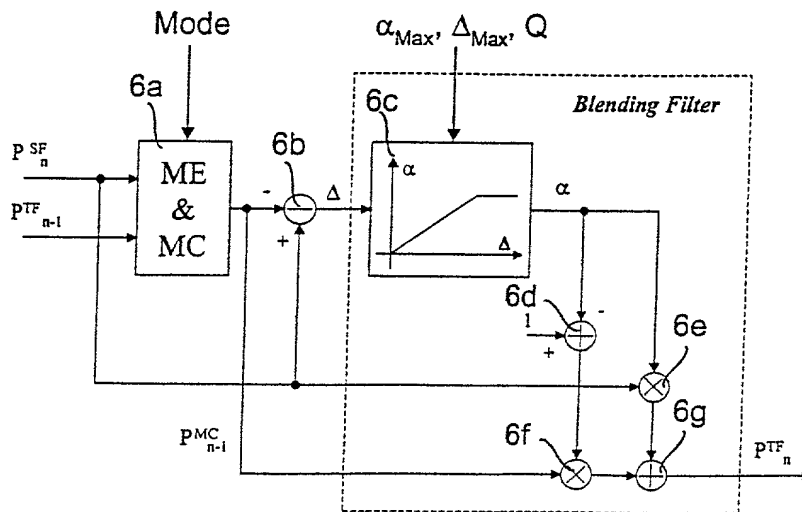


Fig. 8

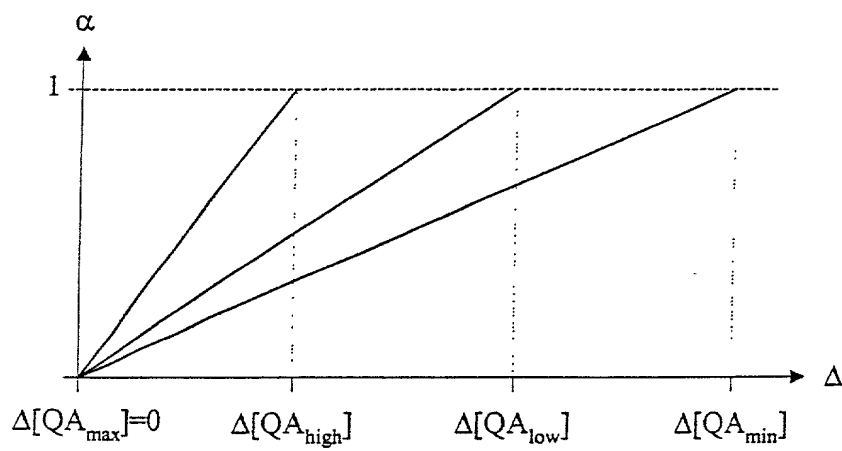


Fig. 9

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